

13142 U.S. PTO
123003UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42P17403

First Inventor Steven K. Reinhardt, et al.

Title BUFFERING UNCHECKED STORES FOR FAULT DETECTION IN REDUNDANT
MULTITHREADING SYSTEMS USING SPECULATIVE MEMORY SUPPORT

Express Mail Label No. EV409361841US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450031356 U.S. PTO
10/27/2003

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 17]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table,
or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration (unsigned) [Total Pages 5]
a. ☐ Newly executed (original or copy)
b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 18 completed)
i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76
7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ paper
c. ☐ Statements verifying identity of above copies
9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
Citations
13. ☐ Preliminary Amendment ☐ Application Amended
to Reflect Claim of
Priority
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).
Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Express mail certificate of mailing

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____

Prior application Information: Examiner _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a
part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when
a portion has been inadvertently omitted from the submitted application parts.

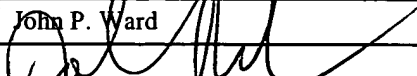
18. CORRESPONDENCE ADDRESS

☒ Customer Number

08791

or ☐ Correspondence address below

Name	Ami Patel Shah				
	Blakely, Sokoloff, Taylor & Zafman LLP				
Address	12400 Wilshire Boulevard, 7th Floor				
City	Los Angeles	State	California	Zip Code	90025
Country		Telephone	(408) 720-8300	Fax	(408) 720-8383

Name (Print/Type)	John P. Ward	Registration No. (Attorney/Agent)	40,216
Signature		Date	12/30/03

Based on PTO/SB/05 (08-03) as modified by Blakely, Sokoloff, Taylor & Zafman (wtr) 08/11/2003.

SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

13142
123003
U.S. PTO

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Complete if Known

Application Number
Filing Date December 30, 2003
First Named Inventor Steven K. Reinhardt
Examiner Name
Group/Art Unit
Attorney Docket No. 42P17403

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$) 770.00

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None
☒ Deposit Account

Deposit Account Number 02-2666
Deposit Account Name Blakely, Sokoloff, Taylor & Zafman LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	770.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					770.00

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
10	20	0	\$0.00
Independent Claims	2	3	0
Multiple Dependent			

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple Dependent claim, if not paid	
1204	86	2204	43	**Reissue independent claims over original patent	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					0.00

*or number previously paid, if greater, For Reissues, see below

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
2053	130	2053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920 *	1804	920 *	Requesting publication of SIR prior to Examiner action	
1805	1,840 *	1805	1,840 *	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	1,210	2255	605	Extension for reply within fifth month	
1404	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	1809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

SUBMITTED BY

Name (Print/Type) John P. Ward

Registration No. 40,216
(Attorney/Agent)

Complete (if applicable)

Telephone (408) 720-8300

Signature

Date

12/30/03

Application No.: _____ Filing Date: 12/30/2003 BSTZ Docket #: 42390.P17403 Atty/Sec: JPW/APS/mrp

Date Mailed: 12/30/2003 Docket Due Date(s): _____ Client: INTEL CORPORATION

Title BUFFERING UNCHECKED STORES FOR FAULT DETECTION IN REDUNDANT MULTITHREADING SYSTEMS USING SPECULATIVE MEMORY SUPPORT

Inventor(s) Reinhardt, Mukherjee, Emer, Weaver

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- | | |
|---|--|
| <input type="checkbox"/> Amendment: (___ pgs) | <input type="checkbox"/> Information Disclosure Statement & PTO/SB/08 (___ pgs) |
| <input type="checkbox"/> Appeal Brief & two copies (___ pgs) | <input type="checkbox"/> Issue Fee Transmittal (original & copy) |
| <input checked="" type="checkbox"/> Application: <u>Utility</u>
(<u>17</u> pages w/ cover & abstract) | <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i) |
| <input type="checkbox"/> Application Amended to Reflect Claim of Priority | <input type="checkbox"/> Notice of Appeal |
| <input type="checkbox"/> Assignment & Cover Sheet (___ pgs) | <input type="checkbox"/> Petition for: _____ |
| <input type="checkbox"/> Certificate of | <input type="checkbox"/> Request for Continued Examination (RCE) |
| <input type="checkbox"/> Continued Prosecution Application (CPA) | <input type="checkbox"/> Reply Brief (___ pgs) |
| <input checked="" type="checkbox"/> Declaration & POA (<u>5</u> pgs) (unsigned) | <input type="checkbox"/> Request to Rescind Previous Nonpublication Request |
| <input checked="" type="checkbox"/> Drawings: <u>5</u> sheets, <u>5</u> figures | <input type="checkbox"/> Response to Notice of Missing Parts & Formalities Letter |
| <input checked="" type="checkbox"/> Express Mail No: <u>EV409361841US</u> | <input type="checkbox"/> Terminal Disclaimer |
| <input type="checkbox"/> Extension of Time: _____ | <input type="checkbox"/> Transmittal of Formal Drawings |
| <input checked="" type="checkbox"/> Fee Transmittal (original & copy) | <input type="checkbox"/> Transmittal of Publication Fee Due |
| <input checked="" type="checkbox"/> Other <u>Express mail certificate of mailing</u> | <input checked="" type="checkbox"/> Transmittal Letter |
| SV _____ | <input checked="" type="checkbox"/> Check No. 62110 in the Amount of <u>\$770.00</u> |
| Assignee: Intel Corporation | <input type="checkbox"/> Check No. _____ in the Amount of _____ |

EV409361841US

"Express Mail" mailing label number: EV409361841US
Date of Deposit: December 30, 2003
I hereby state that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to the Commissioner for Patents,
PO Box 1450, Alexandria, Virginia 22313-1450

Maureen R. Pettibone

(Typed or printed name of person mailing paper or fee)

Maureen R. Pettibone

(Signature of person mailing paper or fee)

12/30/2003

(Date signed)